

CLAIMS

1. A stand adapted to support a portable device in a substantially vertical orientation, comprising:

5 a base having a recess formed to receive the portable device, the portable device having a desktop portion and a display portion;
an anchor movably coupled to the base, the anchor formed to engage the portable device when the desktop portion of the portable device is disposed in the recess of the base;
10 a support operably coupled to the base, the support extending upwardly from the base for holding the desktop portion of the portable device; and
an electrical connector incorporated in the stand for providing a communication path between at least one peripheral device and a portable device disposed in the recess of the base.

15 2. The stand of claim 1, the electrical connector comprising a port replicator.

3. The stand of claim 2, the port replicator being selected from the group consisting of: a parallel port, a serial port, a PS/2 port, a USB port, and an Ethernet connection.

20 4. The stand of claim 1, the electrical connector comprising a hub.

5. The stand of claim 4, the hub comprising a USB hub.

25 6. The stand of claim 1, the electrical connector comprising an external media bay.

7. The stand of claim 6, the external media bay being selected from the group consisting of: a CD-RW drive, a CD drive, a DVD drive, a ZIP drive, and a 3.5 floppy drive.

8. The stand of claim 1, further comprising at least one electrical cable adapted for coupling to the desktop portion of the portable device.

9. The stand of claim 8, the at least one electrical cable comprising a USB port cable adapted for coupling to a USB port of the desktop portion.

10. The stand of claim 8, the at least one electrical cable comprising a parallel port cable adapted for coupling to a parallel port of the desktop portion.

11. The stand of claim 8, the at least one electrical cable comprising a serial port cable adapted for coupling to a serial port of the desktop portion.

12. The stand of claim 8, the at least one electrical cable comprising a power cable adapted to charge the portable device.

13. The stand of claim 8, the at least one electrical cable routed from the base up the support of the stand.

14. The stand of claim 1, further comprising a motor mounted on the stand coupled to extend the support from the base and coupled to move the anchor from the base.

15. The stand of claim 1, further comprising at least one detachable module coupled to the stand, the at least one detachable module providing the communication path between at least one peripheral device and the portable device.

16. The stand of claim 15, the at least one detachable module comprising a port replicator.

17. The stand of claim 16, the port replicator being selected from the group consisting of: a parallel port, a serial port, a PS/2 port, a USB port, and an Ethernet connection.

18. The stand of claim 15, the at least one detachable module comprising a hub.

19. The stand of claim 18, the hub comprising a USB hub.

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20. The stand of claim 15, the at least one detachable module comprising an external media bay.

21. The stand of claim 21, the external media bay being selected from the group consisting
10 of: a CD-RW drive, a CD drive, a DVD drive, a ZIP drive, and a 3.5 floppy drive.

22. The stand of claim 15, the at least one detachable module further comprising at least one electrical cable adapted for coupling to the desktop portion of the portable device.

15 23. The stand of claim 22, the at least one electrical cable comprising a USB port cable adapted for coupling to a USB port of the desktop portion.

24. The stand of claim 22, the at least one electrical cable comprising a parallel port cable adapted for coupling to a parallel port of the desktop portion.

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25. The stand of claim 22, the at least one electrical cable comprising a serial port cable adapted for coupling to a serial port of the desktop portion.

26. The stand of claim 22, the at least one electrical cable comprising a power cable
25 adapted to charge the portable device.

27. The stand of claim 22, the at least one electrical cable is routed from the at least one detachable module up the support of the stand.

28. The stand of claim 15, further comprising a motor mounted on the at least one detachable module coupled to extend the support from the base and coupled to move the anchor from the base.

5 29. The stand of claim 1, when the portable device is disposed in the recess of the base, the portable device being supported at an angle between 60° and 90° relative to the base.

30. The stand of claim 1, when the portable device is disposed in the recess of the base, an angle between a plane of the display portion of the portable device and a plane of the desktop
10 portion of the portable device being in the range of between 160° and 195°

31. The stand of claim 1, the at least one peripheral device being selected from the group consisting of: a keyboard, a mouse, a speaker, an earphone, a printer, a scanner, a digital camera, a pointing device, a microphone, a PC camera, a gamepad, a joystick, a game wheel,
15 and a digital pen pad.

32. A stand adapted to support a portable device in a substantially vertical orientation, comprising:

20 a base having a recess formed to receive a portable device, the portable device having a desktop portion and a display portion;
an anchor movably coupled to the base, the anchor formed to engage the portable device when the desktop portion of the portable device is disposed in the recess of the base;
a support operably coupled to said base, the support extending upwardly from the base
25 for holding the desktop portion of the portable device; and
a transmitter and a receiver housed in the anchor, the transmitter and receiver coupling at least one wireless peripheral device and a portable device disposed in the recess of the base.

33. The stand of claim 32, the transmitter and receiver comprising a radio frequency transmitter and receiver.
34. The stand of claim 33, the receiver is adapted to receive signals simultaneously from at least two wireless peripheral devices.
35. The stand of claim 33, the transmitter and receiver operating at a frequency between 27MHz and 916.5 MHz.
36. The stand of claim 32, the transmitter and receiver comprising an infrared transmitter and receiver.
37. The stand of claim 36, the transmitter and receiver operating at a wavelength between 850nm to 950nm.
38. The stand of claim 37, the receiver is adapted to receive signals simultaneously from at least two wireless peripheral devices.
39. The stand of claim 32, the transmitter and receiver further comprising at least one electrical cable adapted to couple to the desktop portion of the portable device.
40. The stand of claim 39, the at least one electrical cable comprising a USB port cable adapted to couple to a USB port of the desktop portion.
41. The stand of claim 39, the at least one electrical cable comprising a parallel port cable adapted to couple to a parallel port of the desktop portion.
42. The stand of claim 39, the at least one electrical cable comprising a serial port cable adapted to couple to a serial port of the desktop portion.

43. The stand of claim 32, the at least one wireless peripheral device being selected from a group consisting of: a wireless keyboard, a wireless mouse, a wireless speaker, a wireless earphone, a wireless printer, a wireless scanner, a wireless digital camera, a wireless pointing device, a wireless microphone, a wireless PC camera, a wireless gamepad, a wireless joystick, a wireless game wheel, and a wireless digital pen pad.

44. A stand adapted to support a portable device in a substantially vertical orientation, comprising:

- a base having a recess formed to receive a portable device, the portable device having a desktop portion and a display portion;
- an anchor movably coupled to the base, the anchor formed to engage the portable device when the desktop portion of the portable device is disposed in the recess of the base;
- a support operably coupled to said base, the support extending upwardly from the base for holding the desktop portion of the portable device;
- a transmitter and a receiver housed in the anchor, the transmitter and receiver coupling at least one wireless peripheral device and a portable device disposed in the recess of the base; and
- an electrical connector incorporated in the stand for providing a communication path between at least one peripheral device and a portable device disposed in the recess of the base.

45. The stand of claim 44, the transmitter and receiver comprising a radio frequency transmitter and receiver.

46. The stand of claim 45, the receiver is adapted to receive signals simultaneously from at least two wireless peripheral devices.

47. The stand of claim 45, the transmitter and receiver operating at a frequency between 27MHz and 916.5 MHz..

48. The stand of claim 44, the transmitter and receiver comprising an infrared transmitter
5 and receiver.

49. The stand of claim 48, the transmitter and receiver operating at a wavelength between 850nm to 950nm.

10 50. The stand of claim 49, the receiver is adapted to receive signals simultaneously from at least two wireless peripheral devices.

51. The stand of claim 44, the transmitter and receiver further comprising at least one electrical cable adapted to couple to the desktop portion of the portable device.

15 52. The stand of claim 51, the at least one electrical cable is a USB port cable adapted to couple to a USB port of the desktop portion.

53. The stand of claim 51, the at least one electrical cable is a parallel port cable adapted
20 to couple to a parallel port of the desktop portion.

54. The stand of claim 51, the at least one electrical cable is a serial port cable adapted to couple to a serial port of the desktop portion.

25 55. The stand of claim 44, the at least one wireless peripheral device being selected from a group consisting of: a wireless keyboard, a wireless mouse, a wireless speaker, a wireless earphone, a wireless printer, a wireless scanner, a wireless digital camera, a wireless pointing device, a wireless microphone, a wireless PC camera, a wireless gamepad, a wireless joystick, a wireless game wheel, and a wireless digital pen pad.

56. The stand of claim 44, the electrical connector comprising a port replicator.

57. The stand of claim 56, the port replicator being selected from the group consisting of:
5 a parallel port, a serial port, a PS/2 port, a USB port, and an Ethernet connection.

58. The stand of claim 44, the electrical connector comprising a hub.

59. The stand of claim 58, the hub comprising a USB hub.
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60. The stand of claim 44, the electrical connector comprising an external media bay.

61. The stand of claim 60, the external media bay being selected from the group consisting
of: a CD-RW drive, a CD-drive, a DVD drive, a ZIP drive, and a 3.5 floppy drive.
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62. The stand of claim 44, further comprises at least one electrical cable adapted for
coupling to the desktop portion of the portable device.

63. The stand of claim 62, the at least one electrical cable comprising a USB port cable
20 adapted for coupling to a USB port of the desktop portion.

64. The stand of claim 62, the at least one electrical cable comprising a parallel port cable
adapted for coupling to a parallel port of the desktop portion.

25 65. The stand of claim 62, the at least one electrical cable comprising a serial port cable
adapted for coupling to a serial port of the desktop portion.

66. The stand of claim 62, the at least one electrical cable comprising a power cable
adapted to charge the portable device.

67. The stand of claim 62, the at least one electrical cable is routed from the base up the support of the stand.

5 68. The stand of claim 44, further comprising a motor mounted on the stand coupled to extend the support from the base and coupled to move the anchor from the base.

69. The stand of claim 44, further comprising at least one detachable module coupled to the stand, the at least one detachable module providing a communication path between at least
10 one peripheral device and the portable device.

70. The stand of claim 69, the at least one detachable module comprising a port replicator.

71. The stand of claim 69, the port replicator being selected from the group consisting of:
15 a parallel port; a serial port, a PS/2 port, a USB port, and an Ethernet connection.

72. The stand of claim 69, the at least one detachable module comprising a hub.

73. The stand of claim 72, the hub comprising a USB hub.
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74. The stand of claim 69, the at least one detachable module comprising an external media bay.

75. The stand of claim 74, the external media bay being selected from the group consisting
25 of: a CD-RW drive, a CD-drive, a DVD drive, a ZIP drive, and a 3.5 floppy drive.

76. The stand of claim 69, the at least one detachable module further comprising at least one electrical cable adapted for coupling to the desktop portion of the portable device.

77. The stand of claim 76, the at least one electrical cable comprising a USB port cable adapted for coupling to a USB port of the desktop portion.
78. The stand of claim 76, the at least one electrical cable comprising a parallel port cable
5 adapted for coupling to a parallel port of the desktop portion.
79. The stand of claim 76, the at least one electrical cable comprising a serial port cable adapted for coupling to a serial port of the desktop portion.
- 10 80. The stand of claim 76, the at least one electrical cable comprising a power cable adapted to charge the portable device.
81. The stand of claim 76, the at least one electrical cable is routed from the detachable module up the support of the stand.
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82. The stand of claim 69, further comprising a motor mounted on the at least one detachable module coupled to extend the support from the base and coupled to move the anchor from the base.
- 20 83. The stand of claim 44, the at least one peripheral device being selected from a group consisting of: a keyboard, a mouse, a speaker, an earphone, a printer, a scanner, a digital camera, a pointing device, a microphone, a PC camera, a gamepad, a joystick, a game wheel, and a digital pen pad.
- 25 84. The stand of claim 44, when the portable device is disposed in the recess of the base the portable device is recessed at an angle between 60° and 90°.

85. The stand of claim 44, when the portable device is disposed in the recess of the base, an angle between a plane of the display portion and a plane of the desktop portion being in the range of between 160° and 195°.

5 86. A method, comprising:

providing a stand having,

a base with a recess formed to receive a portable device having a desktop
portion and a display portion;

an anchor for engaging the desktop portion in the recess of the base;

10 a support for holding the display portion of the portable device;

an electrical connector incorporated in the stand for communicating between at
least one peripheral device and the portable device;

interposing the desktop portion of a portable device in the recess for ergonomically
positioning the portable device; and

15 moving the anchor relative to the base to support the portable with the recess.

87. The method of claim 86, the electrical connector comprising a port replicator, the method further comprising communicating between at least one peripheral device coupled to the port replicator and a portable device.

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88. The method of claim 87, the port replicator housed in a detachable module for attaching to the stand, the method further comprising providing a communication path between at least one peripheral device coupled to the detachable module and the portable device.

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89. The method of claim 86, the electrical connector comprising a hub, the method further comprising communicating between at least one peripheral device coupled to the hub and the portable device.

90. The method of claim 89, the hub housed in a detachable module for attaching to the stand, the method further comprising providing a communication path between at least one peripheral device coupled to the detachable module and the portable device.

5 91. The method of claim 86, further comprising providing an electrical cable adapted for coupling the electrical connector to the desktop portion of the portable device.

92. A method, comprising:

providing a stand having,

10 a base with a recess formed to receive a portable device having a desktop portion and a display portion;

an anchor, moveable relative to the base, for engaging the desktop portion in the recess of the base;

a support for holding the display portion of the portable device;

15 a transmitter and receiver housed in the anchor for communicating between at least one wireless peripheral device and the portable device;

interposing the desktop portion of a portable device in the recess for ergonomically positioning the portable device; and

moving the anchor relative to the base to support the portable with the recess.

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93. The method of claim 92, the transmitter and receiver comprising a infrared transmitter and receiver, the method further comprising communicating between at least one wireless peripheral device coupled to the infrared transmitter and receiver and the portable device.

25 94. The method of claim 92, the transmitter and receiver comprising a radio frequency transmitter and receiver, the method further comprising communicating between at least one wireless peripheral device coupled to the radio frequency transmitter and receiver and the portable device.

95. The method of claim 92, further comprising providing an electrical cable adapted for coupling the transmitter and receiver to the desktop portion of the portable device.

96. A method, comprising:

5 providing a stand having,

a base with a recess formed to receive a portable device having a desktop
portion and a display portion;

an anchor, moveable relative to the base, for engaging the desktop portion in
the recess of the base;

10 a support for holding the display portion of the portable device;

an electrical connector incorporated in the stand for communicating between at
least one peripheral device and the portable device;

a transmitter and receiver housed in the anchor for communicating between at
least one wireless peripheral device and the portable device;

15 interposing the desktop portion of a portable device in the recess for ergonomically
positioning the portable device; and

moving the anchor relative to the base to support the portable with the recess.

97. The method of claim 96, the electrical connector comprising a port replicator, the
20 method further comprising communicating between at least one peripheral device coupled to
the port replicator and a portable device.

98. The method of claim 96, the port replicator housed in a detachable module for
attaching to the stand, the method further comprising providing a communication path
25 between at least one peripheral device coupled to the detachable module and the portable
device.

99. The method of claim 96, the electrical connector comprising a hub, the method further comprising communicating between at least one peripheral device coupled to the hub and the portable device.

5 100. The method of claim 99, the hub housed in a detachable module for attaching to the stand, the method further comprising providing a communication path between at least one peripheral device coupled to the detachable module and the portable device.

10 101. The method of claim 96, the transmitter and receiver comprising a infrared transmitter and receiver, the method further comprising communicating between at least one wireless peripheral device coupled to the infrared transmitter and receiver and the portable device.

15 102. The method of claim 96, the transmitter and receiver comprising a radio frequency transmitter and receiver, the method further comprising communicating between at least one wireless peripheral device coupled to the radio frequency transmitter and receiver and the portable device.

20 103. The method of claim 96, further comprising providing at least one electrical cable adapted for coupling the transmitter and receiver to the desktop portion of the portable device.

104. The method of claim 96, further comprising providing an electrical cable adapted for coupling the electrical connector to the desktop portion of the portable device.